BRUHAT BANGALORE MAHANAGARA PALIKE

ame of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

Second and Part Bill

Item No: 21

Item Name: Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges -Ready mixed Cement concrete for Beams, Staircase and Roof with M-30 Third Floor

| CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|
| Third Floor | | | | | | | | |
| Grid A - 1 to 21 | 19.00 | 0.60 | | | 0.30 | 3.150 | 10.77 | |
| Grid B- 1 to 21 | 12.00 | 0.60 | | | 0.30 | 3.150 | 6.80 | |
| Grid C- 1 to 21 | 11.00 | 0.60 | | | 0.30 | 3.150 | 6.24 | |
| Lift Column | 4.00 | 0.45 | | | 0.20 | 3.150 | 1.13 | |
| Grid F- 1 to 21 | 18.00 | 0.60 | | | 0.30 | 3.150 | 10.21 | |
| Grid G- 11 | 1.00 | 0.45 | | | 0.20 | 3.150 | 0.28 | |
| | | | | | | | | |
| Slab Area | 1.00 | 57.80 | | | 16.80 | 0.150 | 145.65 | |
| | 1.00 | 5.10 | | | 1.50 | 0.150 | 1.15 | |
| Deduction(-) | | | | | | | | |
| Staircase area | -2.00 | 1.50 | | | 3.50 | 0.150 | -1.58 | |
| | -1.00 | 1.50 | | | 2.60 | 0.150 | -0.59 | |
| Duct | -1.00 | 0.55 | | | 1.25 | 0.150 | -0.10 | |
| Lift | -1.00 | 1.80 | | | 2.14 | 0.150 | -0.58 | |
| Beam | | | | | | | | |
| B-1,2,3 | 1.00 | 57.80 | | | 0.20 | 0.300 | 3.47 | |
| B-4 | 1.00 | 5.80 | | | 0.15 | 0.300 | 0.26 | |
| B-5 & 7 | 2.00 | 59.30 | | | 0.30 | 0.300 | 10.67 | |
| B-6 | 1.00 | 6.10 | | | 0.20 | 0.300 | 0.37 | |
| B-8 | 1.00 | 3.50 | | | 0.20 | 0.300 | 0.21 | |
| B-9 | 2.00 | 1.80 | | | 0.20 | 0.300 | 0.22 | |
| B-10 | 1.00 | 3.00 | | | 0.20 | 0.300 | 0.18 | |
| B-12A | 1.00 | 0.65 | | | 0.20 | 0.300 | 0.04 | |
| B-13 | 2.00 | 3.30 | | | 0.20 | 0.300 | 0.40 | |
| | 2.00 | 2.90 | | | 0.20 | 0.300 | 0.35 | |
| B-14,15 & 14A | 1.00 | 57.80 | | | 0.20 | 0.300 | 3.47 | |
| B-14B | 1.00 | 57.80 | | | 0.15 | 0.300 | 2.60 | |
| B-16 | 1.00 | 15.05 | | | 0.20 | 0.300 | 0.90 | |
| B-16A | 1.00 | 4.70 | | | 0.20 | 0.300 | 0.28 | |
| B-17 | 1.00 | 15.05 | | | 0.30 | 0.300 | 1.35 | |
| B-18 | 7.00 | 15.05 | | | 0.30 | 0.300 | 9.48 | |
| B-18A | 5.00 | 15.05 | | | 0.30 | 0.300 | 6.77 | |
| B-19 | 1.00 | 15.05 | | | 0.30 | 0.300 | 1.35 | |
| B-20 | 1.00 | 15.05 | | | 0.30 | 0.300 | 1.35 | |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| B-21 | 2.00 | 2.85 | | | 0.15 | 0.300 | 0.26 | |
| B-22 | 1.00 | 6.60 | | | 0.20 | 0.300 | 0.40 | |
| B-23 | 1.00 | 2.54 | | | 0.20 | 0.300 | 0.15 | |
| B-24 | 1.00 | 15.05 | | | 0.30 | 0.300 | 1.35 | |
| B-25 | 1.00 | 7.80 | | | 0.30 | 0.300 | 0.70 | |
| B-26 | 1.00 | 15.05 | | | 0.20 | 0.300 | 0.90 | |
| Stair case | | | | | | | | |
| Midlanding | 1.00 | 6.10 | | | 0.30 | 0.450 | 0.82 | |
| First Flait | 1.00 | 2.40 | | | 1.50 | 0.175 | 0.63 | |
| Landing | 1.00 | 1.70 | | | 1.50 | 0.175 | 0.45 | |
| Second Flait | 1.00 | 2.70 | | | 1.50 | 0.175 | 0.71 | |
| Landing | 1.00 | 1.65 | | | 1.50 | 0.175 | 0.43 | |
| Riser | 17x1/2 | 0.30 | | | 1.50 | 0.150 | 0.57 | |
| Third Flait | 1.00 | 1.90 | | | 1.50 | 0.175 | 0.50 | |
| Riser | 7x1/2 | 0.30 | | | 1.50 | 0.150 | 0.23 | |
| Lintels | | | | | | | | |
| Door | 1.00 | 1.80 | | | 0.20 | 0.20 | 0.07 | |
| Windows | 33.00 | 2.60 | | | 0.20 | 0.20 | 3.43 | |
| Ventilators | 10.00 | 0.90 | | | 0.20 | 0.20 | 0.36 | |
| | | | | | | **Total Qty Work Done** | **235.10** | **Cum** |
| | | | | | | **Qty Reserved** | **46.10** | |
| | | | | | | **Qty Limited Payable in this bill** | **189.00** | **Cum** |

Contractor Representative

Consultant Representative

**Assistant Engineer**
**RR Nagara Division (Project )**

**Asst.Executive Engineer**
**RR Nagara Division (Project )**

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**Second and Part Bill**

| | |
|---|---|
| 22 | |

Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges -Ready mixed Cement concrete for Beams, Staircase and Roof with M-30 Terrece Floor

| CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|
| Terrace Floor | | | | | | | | |
| Column | 4.00 | 0.30 | | | 0.60 | 3.200 | 2.30 | |
| | 4.00 | 0.23 | | | 0.45 | 3.200 | 1.32 | |
| | 1.00 | 0.20 | | | 0.45 | 3.200 | 0.29 | |
| Roof Beam | | | | | | | | |
| 5B1 | 1.00 | 6.10 | | | 0.20 | 0.450 | 0.55 | |
| 5B2 | 1.00 | 6.10 | | | 0.23 | 0.450 | 0.63 | |
| 5B3 | 1.00 | 6.10 | | | 0.20 | 0.450 | 0.55 | |
| 5B4 | 1.00 | 5.60 | | | 0.30 | 0.450 | 0.76 | |
| 5B5 | 1.00 | 5.60 | | | 0.20 | 0.450 | 0.50 | |
| 5B6 | 1.00 | 2.37 | | | 0.20 | 0.450 | 0.21 | |
| 5B7 | 1.00 | 5.60 | | | 0.30 | 0.450 | 0.76 | |
| Slab | | | | | | | | |
| | 1.00 | 6.10 | | | 2.30 | 0.150 | 2.10 | |
| | 1.00 | 6.10 | | | 2.14 | 0.150 | 1.96 | |
| | 1.00 | 6.10 | | | 1.49 | 0.150 | 1.36 | |
| | | | | | | **Total Qty Work Done** | **13.30** | **Cum** |
| | | | | | | **Qty Limited Payable in this bill** | **13.30** | **Cum** |

Total 13.29

Contractor Representative

Consultant Representative

**Assistant Engineer**
**RR Nagara Division (Project )**

**Asst.Executive Engineer**
**RR Nagara Division (Project )**

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**Second and Part Bill**

**26**

Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for sides & soffits of beams, beam hauncing cantilever girders, bressumers & lintels & not exceeding 1.0 in depth including cost of all materials, labour complete as per specifications. - First Floor

| CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|
| First Floor | | | | | | | | |
| Door | 1 | 1.20 | | | 0.20 | | 0.24 | |
| | 2 | 1.80 | | | | 0.20 | 0.72 | |
| Windows | 19 | 1.50 | | | 0.20 | | 5.70 | |
| | 38 | 2.10 | | | | 0.20 | 15.96 | |
| Windows | 1 | 2.00 | | | 0.20 | | 0.40 | |
| | 2.00 | 2.60 | | | | 0.20 | 1.04 | |
| | | | | | | **Total Qty Work Done** | **437.18** | **Sqm** |
| | | | | | | **Last Bill Qty** | **413.12** | **Sqm** |
| | | | | | | **Qty Limited Payable in this bill** | **24.06** | **Sqm** |

Contractor Representative

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Consultant Representative

**Assistant Engineer**
**R Nagara Division (Project )**

**Asst.Executive Engineer**
**RR Nagara Division (Project )**

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**Second and Part Bill**

27

Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for sides & soffits of beams, beam hauncing cantilever girders, bressumers & lintels & not exceeding 1.0 in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 - Second Floor

| Second Floor / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|
| Second Floor | | | | | | | | |
| Door | 1 | 1.20 | | | 0.20 | | 0.24 | |
| | 2 | 1.80 | | | | 0.20 | 0.72 | |
| Ventilators | 10 | 0.60 | | | 0.20 | | 1.20 | |
| | 20 | 0.90 | | | | 0.20 | 3.60 | |
| Windows | 33 | 2.00 | | | 0.20 | | 13.20 | |
| | 66.00 | 2.60 | | | | 0.20 | 34.32 | |
| | | | | | | **Total Qty Work Done** | **53.28** | |
| | | | | | | **Last Bill Qty** | **383.93** | |
| | | | | | | **Schedule B Qty** | **406.70** | |
| | | | | | | **Reserved Qty** | **30.51** | **Sq** |
| | | | | | | **Qty Limited Payable in this bill** | **22.77** | **Sq** |

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ontractor Representative

Consultant Representative

**Assistant Engineer**
**R Nagara Division (Project )**

**Asst.Executive Engineer**
**RR Nagara Division (Project )**

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**Second and Part Bill**

| 28 | |
|---|---|

Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for sides & soffits of beams, beam hauncing cantilever girders, bressumers & lintels & not exceeding 1.0 in depth including cost of all materials, labour complete as per specifications. - Third Floor

| CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|
| Second Floor | | | | | | | | |
| Door | 1 | 1.20 | | | 0.20 | | 0.24 | |
| | 2 | 1.80 | | | | 0.20 | 0.72 | |
| Ventilators | 10 | 0.60 | | | 0.20 | | 1.20 | |
| | 20 | 0.90 | | | | 0.20 | 3.60 | |
| Windows | 33 | 2.00 | | | 0.20 | | 13.20 | |
| | 66.00 | 2.60 | | | | 0.20 | 34.32 | |
| | | | | | | **Total Qty Work Done** | **53.28** | **Sqm** |
| | | | | | | **Reserve Qty** | | **Sqm** |
| | | | | | | **Qty Limited Payable in this bill** | **53.28** | **Sqm** |

406.70

ntractor Representative

Consultant Representative

**Assistant Engineer**
**Nagara Division (Project )**

**Asst.Executive Engineer**
**RR Nagara Division (Project )**

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**Second and Part Bill**

29

Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for sides & soffits of beams, beam hauncing cantilever girders, bressumers & lintels & not exceeding 1.0 in depth including cost of all materials, labour complete as per specifications. - Terrece Floor

| CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|
| Terrace Floor | | | | | | | | |
| Roof Beam | | | | | | | | |
| 5B1 | 1.00 | 6.10 | | | 0.20 | | 1.22 | |
| | 2.00 | 6.10 | | | | 0.450 | 5.49 | |
| 5B2 | 1.00 | 6.10 | | | 0.23 | | 1.40 | |
| | 2.00 | 6.10 | | | | 0.450 | 5.49 | |
| 5B3 | 1.00 | 6.10 | | | 0.20 | | 1.22 | |
| | 2.00 | 6.10 | | | | 0.450 | 5.49 | |
| 5B4 | 1.00 | 5.60 | | | 0.30 | | 1.68 | |
| | 2.00 | 6.10 | | | | 0.450 | 5.49 | |
| 5B5 | 1.00 | 5.60 | | | 0.20 | | 1.12 | |
| | 2.00 | 5.60 | | | | 0.450 | 5.04 | |
| 5B6 | 1.00 | 2.37 | | | 0.20 | | 0.47 | |
| | 2.00 | 2.37 | | | | 0.450 | 2.13 | |
| 5B7 | 1.00 | 5.60 | | | 0.30 | | 1.68 | |
| | 2.00 | 5.60 | | | | 0.450 | 5.04 | |
| | | | | | | **Total Qty Work Done** | **42.97** | **Sq** |
| | | | | | | **Qty Limited Payable in this bill** | **42.00** | **Sq** |

ontractor Representative

Consultant Representative

K.R. Kumar

**Assistant Engineer**

**R Nagara Division (Project )**

**Asst.Executive Engineer**

**RR Nagara Division (Project )**

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**Second and Part Bill**

**39**

Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specification. -Third Floor

| CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|
| Columns (Second Floor) | | | | | | | | |
| Grid - A - 1 to 21 | 1x19 | 1.800 | | | | 3.150 | 107.73 | |
| Grid - B - 1 to 21 | 1x12 | 1.800 | | | | 3.150 | 68.04 | |
| Grid - C - 1 to 21 | 1x11 | 1.800 | | | | 3.150 | 62.37 | |
| Grid - F - 1 to 21 | 1x18 | 1.800 | | | | 3.150 | 102.06 | |
| Grid - G - 11 | 1x1 | 1.300 | | | | 3.150 | 4.10 | |
| Lift | 1x4 | 1.300 | | | | 3.150 | 16.38 | |
| | | | | | | **Total Qty Work Done** | **360.68** | **Sqm** |
| | | | | | | **Qty Payable in this bill** | **360.68** | **Sqm** |

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ontractor Representative

Consultant Representative

**Assistant Engineer**
**Nagara Division (Project )**

**Asst.Executive Engineer**
**RR Nagara Division (Project )**

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**ame of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**Second and Part Bill**

| | |
|---|---|
| Item No: | 40 |
| Item lame: | Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specification. Specification No. KBS 4.6.2 -Terrece Floor |

| CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|
| Terrace Floor | | | | | | | | |
| Column | 4.00 | 1.80 | | | | 3.200 | 23.04 | |
| | 4.00 | 1.36 | | | | 3.200 | 17.41 | |
| | 1.00 | 1.30 | | | | 3.200 | 4.16 | |
| | | | | | | **Total Qty Work Done** | **44.61** | **Sqm** |
| | | | | | | **Reserved Qty** | **15.51** | |
| | | | | | | **Qty Limited Payable in this bill** | **29.10** | **Sqm** |

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Contractor Representative

Consultant Representative

**Assistant Engineer**
**R Nagara Division (Project )**

**Asst.Executive Engineer**
**RR Nagara Division (Project )**

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**Name of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**Second and Part Bill**

Item No: 44

Item Name: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification upto 3.5 m from Ground level -Third Floor

| CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|
| Secound floor | 1x1 | 16.800 | 57.800 | | | | 971.04 | |
| | 1x1 | 5.100 | 1.500 | | | | 7.65 | |
| Deductions | | | | | | | | |
| Staircase | 1x2 | 1.500 | 3.500 | | | | -10.50 | |
| | 1x1 | 2.600 | 1.500 | | | | -3.90 | |
| Duct | 1x1 | 5.500 | 1.250 | | | | -0.69 | 6.89 |
| Lift | 1x1 | 1.800 | 2.140 | | | | -3.85 | |
| Columns | 1x42 | 0.300 | 0.600 | | | | -7.56 | |
| | 1x14 | 0.300 | 0.300 | | | | -1.26 | |
| | 1x42 | 0.230 | 0.450 | | | 940.41 | -0.41 | 4.34 |
| | | | | | | **Total Qty Work Done** | **950.52** | **Sqm** |
| | | | | | | **Reserve Qty** | **84.72** | **Sqm** |
| | | | | | | **Qty Limited Payable in this bill** | **865.80** | **Sqm** |

RQ = 74.61

Contractor Representative

Consultant Representative

B K. [illegible]

**Assistant Engineer**
**RR Nagara Division (Project )**

**Asst.Executive Engineer**
**RR Nagara Division (Project )**

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**me of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**Second and Part Bill**

tem No: **45**

tem ame: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification upto 3.5 m from Ground level -Terrece Floor

| CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|
| Terrace Floor | | | | | | | | |
| Slab | | | | | | | | |
| | 1.00 | 6.10 | | | 2.30 | | 14.03 | |
| | 1.00 | 6.10 | | | 2.14 | | 13.05 | |
| | 1.00 | 6.10 | | | 1.49 | | 9.09 | |
| | | | | | | **Total Qty Work Done** | **36.17** | **Sqm** |
| | | | | | | **Qty Payable in this bill** | **36.17** | **Sqm** |

Contractor Representative

Consultant Representative

**Assistant Engineer**
**RR Nagara Division (Project )**

**Asst.Executive Engineer**
**RR Nagara Division (Project )**

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**me of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**Second and Part Bill**

em No: 49

em me: Providing and removing centring, shuttering, strutting, proping etc., and removal of form work for stairs (excluding landing) except spiral staircase including cost of all materials,labour complete as per specification and directed by the Engineer in Charge -Third Floor to Terrece Floor

| CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|
| Staircase - SF to TF | | | | | | | | |
| Z' beam side | 1x1 | 5.400 | | | | 0.450 | 2.43 | |
| | 1x1 | 5.400 | | | | 0.275 | 1.49 | |
| Bottom | 1x1 | 5.400 | | | 0.300 | | 1.62 | |
| 7th Flait | 1x1 | 1.900 | | | 1.500 | | 2.85 | |
| Landing | 1x1 | 2.200 | | | 1.500 | | 3.30 | |
| Side | 1x1 | 4.000 | | | 0.375 | | 1.50 | |
| 8th Flait | 1x1 | 2.700 | | | 1.800 | | 4.86 | |
| Landing | 1x1 | 1.650 | | | 1.500 | | 2.48 | |
| 9th Flait | 1x1 | 1.900 | | | 1.500 | | 2.85 | |
| Steps (Riser) | 1x24 | 1.500 | | | 0.125 | | 4.68 4.5 | |
| | | | | | | **Total Qty Work Done** | 28.05 23.88 | **Sqm** |
| | | | | | | **Reserved qty** | 6.75 6.58 | |
| | | | | | | **Qty Limited Payable in this bill** | **21.30** | **Sqm** |

Contractor Representative

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Consultant Representative

**Assistant Engineer**
**RR Nagara Division (Project )**

**Asst.Executive Engineer**
**RR Nagara Division (Project )**

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**Name of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**Second and Part Bill**

| Description | Unit | Dia | No. | Length | Breadth | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| **Reinforcement Work** | | | | | | | | |
| Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications. . | | | | | | | | |
| FOR TMT Bars Fe- 500 - First Floor | | | | | | | | |
| **First Floor Lintels** | | | | | | | | |
| | | | | | | | | |
| Window- Main bars | mt | 12mm | 4X18 | 2.10 | | | 134.27 | |
| Window - Ring | mt | 8mm | 16X18 | 0.90 | | | 102.38 | |
| Window - Main bars | mt | 12mm | 4X1 | 2.60 | | | 9.24 | |
| Window - Ring | mt | 8mm | 1X20 | 0.90 | | | 7.11 | |
| Door - Main bars | mt | 12mm | 1X4 | 1.80 | | | 6.39 | |
| Door - Ring | mt | 8mm | 1X14 | 0.90 | | | 4.98 | |
| | | | | | Weight in kgs | | 264.37 | |
| | | | | | Weight in Tonne | | 0.26 | |
| | | | | | **Total Qty Work Done** | | **0.26** | **Ton** |
| | | | | | **Last Bill Qty** | | **29.21** | |
| | | | | | **Schedule B Qty** | | **29.80** | |
| | | | | | **Qty Payable in this bill** | | **0.26** | **Ton** |

Contractor Representative

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Consultant Representative

**Assistant Engineer**
**RR Nagara Division (Project )**

**Asst.Executive Engineer**
**RR Nagara Division (Project )**

Scanned with CamScanner

## BRUHAT BANGALORE MAHANAGARA PALIKE

**Name of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**Second and Part Bill**

| Description | Unit | Dia | No. | Length | Breadth | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| **Reinforcement Work** | | | | | | | | |
| Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications. . FOR TMT Bars Fe-500 - Second Floor | | | | | | | | |
| **Second Floor Lintels** | | | | | | | | |
| | | | | | | | | |
| Window- Main bars | mt | 12mm | 4X33 | 2.60 | | | 304.76 | |
| Window - Ring | mt | 8mm | 20X33 | 0.90 | | | 234.63 | |
| Door - Main bars | mt | 12mm | 1X4 | 1.80 | | | 6.39 | |
| Door - Ring | mt | 8mm | 1X14 | 0.90 | | | 4.98 | |
| Ventilators - Main bars | mt | 12mm | 4X10 | 0.90 | | | 31.97 | |
| Ventilators - Ring | mt | 8mm | 8X10 | 0.90 | | | 28.44 | |
| Bath room Doors | | | | | | | | |
| Main bars | mt | 12mm | 4X12 | 1.2 | | | 51.15 | |
| Rings | mt | 8mm | 10X12 | 0.9 | | | 42.66 | |
| | | | | | Weight in kgs | | 704.98 | |
| | | | | | Weight in Tonne | | 0.70 | |
| | | | | | | **Total Qty Work Done** | **0.70** | **Ton** |
| | | | | | | **Last Bill Qty** | **25.75** | |
| | | | | | | **Schedule B Qty** | **25.80** | |
| | | | | | | **Reserved Qty** | **0.65** | |
| | | | | | | **Qty Payable in this bill** | **0.05** | **Ton** |

Contractor Representative

Consultant Representative

**Assistant Engineer**
**RR Nagara Division (Project )**

**Asst.Executive Engineer**
**RR Nagara Division (Project )**

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

Second and Part Bill

| Description | Unit | Dia | No. | Length | Breadth | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| **Reinforcement Work** | | | | | | | | |
| Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications.. FOR TMT Bars Fe-500 - Third Floor | | | | | | | | |
| **Third Floor Columns** | | | | | | | | |
| C1 | mt | 12mm | 1x8 | 3.6 | | | 28.80 | |
| C2 | mt | 12mm | 4x8 | 3.60 | | | 115.20 | |
| C5 | mt | 16mm | 48x4 | 3.60 | | | 691.20 | |
| | mt | 12mm | 48x8 | 3.60 | | | 1382.84 | |
| C6 | mt | 16mm | 4x10 | 3.60 | | | 144.00 | |
| | mt | 12mm | 4x2 | 3.60 | | | 28.80 | |
| C7 | mt | 16mm | 6x4 | 3.60 | | | 86.40 | |
| | mt | 12mm | 6x8 | 3.60 | | | 172.80 | |
| C8 | mt | 20 mm | 2x12 | 3.60 | | | 86.40 | |
| Ring 200c/c | | | | | | | | |
| C1 | mt | 8mm | 1x2x17 | 1.08 | | | 36.72 | |
| C2 | mt | 8mm | 4x2x17 | 1.08 | | | 146.88 | |
| C5 | mt | 8mm | 48x17 | 1.60 | | | 1305.60 | |
| | mt | 8mm | 48x17 | 0.75 | | | 612.00 | |
| | mt | 8mm | 48x17 | 0.35 | | | 285.60 | |
| C6 | mt | 8mm | 4x17 | 1.60 | | | 108.80 | |
| | mt | 8mm | 4x17 | 0.75 | | | 51.00 | |
| | mt | 8mm | 4x17 | 0.35 | | | 23.80 | |
| C7 | mt | 8mm | 6x17 | 1.60 | | | 163.20 | |
| | mt | 8mm | 6x17 | 0.75 | | | 76.50 | |
| | mt | 8mm | 6x17 | 0.35 | | | 35.70 | |
| C8 | mt | 8mm | 2x17 | 1.60 | | | 54.40 | |
| | mt | 8mm | 2x17 | 0.75 | | | 25.50 | |
| | mt | 8mm | 2x17 | 0.35 | | | 11.90 | |
| | | | | | | | | |
| | | | | | | | | |
| **Second Floor Roof Slab & Beam** | | | | | | | | |
| B (1,2 & 3) (200x450) | | | | | | | | |
| Top & Bottom | mt | 12mm | 2x2 | 30+28.4=58.4 | | | 233.60 | |
| Ring 150c/c & 230c/ | mt | 8mm | 324 | 1.16 | | | 375.84 | |
| B4 (150x450) Top & Bottom | mt | 16mm | 2x2 | 7.00 | | | 28.00 | |
| Ring 150c/c & 230c/ | mt | 8mm | 42 | 1.11 | | | 46.62 | |
| B5 (300x450) Top & Bottom | mt | 16mm | 3x2 | 30+28.4=58.4 | | | 350.40 | |
| Extra Top | mt | 16mm | 2x2 | 3.30 | | | 13.20 | |
| | mt | 20mm | 2x5 | 5.00 | | | 50.00 | |
| | mt | 20mm | 2x2 | 4.30 | | | 17.20 | |
| Bottom | mt | 20mm | 2x7 | 5.00 | | | 70.00 | |
| Pin Rod | mt | 20mm | 12 | 0.3 | | | 3.60 | |
| Ring 125c/c & 200c/c | mt | 10mm | 364 | 1.36 | | | 495.04 | |
| | mt | 8mm | 100 | 1.36 | | | 136.00 | |
| B7 (300x450) Top | mt | 16mm | 3x1 | 30+28.4=58.4 | | | 175.20 | |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Bottom | mt | 20mm | 3x2 | 7.9 | | | 47.40 | |
| | mt | 16mm | 3x1 | 30+16.8=46.8 | | | 140.40 | |
| Extra Top | mt | 20mm | 3x2 | 3.30 | | | 19.80 | |
| | mt | 20mm | 3x5 | 5.00 | | | 75.00 | |
| | mt | 20mm | 3x4 | 4.30 | | | 51.60 | |
| Bottom | mt | 25mm | 3x1 | 5.00 | | | 15.00 | |
| | mt | 20mm | 3x7 | 5.00 | | | 105.00 | |
| Pin Rod | mt | 20mm | 12 | 0.30 | | | 3.60 | |
| Ring 125c/c & 230c/c | mt | 10mm | 400 | 1.36 | | | 544.00 | |
| | mt | 8mm | 38 | 1.36 | | | 51.68 | |
| B6 (200x450) Top & Bottom | mt | 16mm | 2x2 | 7.00 | | | 28.00 | |
| Ring - 150 c/c & 230 c/c | mt | 8mm | 42 | 1.11 | | | 46.62 | |
| B8 (200x450) Top & Bottom | mt | 16mm | 2x2 | 4.35 | | | 17.40 | |
| Ring 150c/c & 230c/c | mt | 8mm | 23 | 1.16 | | | 26.68 | |
| B9 (200x450) Top & Bottom | mt | 16mm | 4x2 | 2.6 | | | 20.80 | |
| Ring 150c/c | mt | 8mm | 17 | 1.16 | | | 19.72 | |
| B10 (200x450) Top & Bottom | mt | 16mm | 2x2 | 4.1 | | | 16.40 | |
| Extra bottom | mt | 16mm | 2x2 | 2.4 | | | 9.60 | |
| Ring - 150 c/c & 230 c/c | mt | 8mm | 21x2 | 1.16 | | | 48.72 | |
| B12A (200x450) Top & Bottom | mt | 12mm | 2x2 | 0.95 | | | 3.80 | |
| Ring 150c/c & 230c/c | mt | 8mm | 4 | 1.16 | | | 4.64 | |
| B13 (150x450) Top & Bottom | mt | 16mm | 4x4 | 4.1 | | | 65.60 | |
| Bottom | mt | 12mm | 2x4 | 4.1 | | | 32.80 | |
| Ring 150c/c | mt | 8mm | 21x4 | 1.11 | | | 93.24 | |
| B14 (200x450) Top & Bottom | mt | 12mm | 2x2 | 29.5 | | | 118.00 | |
| Bottom | mt | 16mm | 2 | 2.2 | | | 4.40 | |
| Ring 150c/c & 230c/c | mt | 8mm | 148 | 1.16 | | | 171.68 | |
| B15 (200x450) Top & Bottom | mt | 16mm | 2x2 | 7.1 | | | 28.40 | |
| Extra Top | mt | 12mm | 2 | 2.05 | | | 4.10 | |
| Bottom | mt | 16mm | 2 | 4.00 | | | 8.00 | |
| Pin Rod | mt | 20mm | 6 | 0.30 | | | 1.80 | |
| Ring 150c/c & 230c/c | mt | 8mm | 36 | 1.16 | | | 41.76 | |
| B14A (200x450) Top & bottom | mt | 12mm | 2x2 | 23.00 | | | 92.00 | |
| Ring 150c/c & 230c/c | mt | 8 mm | 126 | 1.16 | | | 146.16 | |
| B14B (150x450) Top & Bottom | mt | 12mm | 2x2 | 30+28.4=58.4 | | | 233.60 | |
| Extra Top | mt | 20mm | 2x2 | 4.10 | | | 16.40 | |
| Bottom | mt | 20mm | 2 | 5.40 | | | 10.80 | |
| Pin Rod | mt | 20mm | 6 | 0.30 | | | 0.80 | |
| Ring 150c/c & 230c/c | mt | 8mm | 324 | 1.11 | | | 359.64 | |
| B16 (200x450) Top & Bottom | mt | 16mm | 2x2 | 16.80 | | | 67.20 | |
| Extra Top | mt | 20mm | 2 | 5.00 | | | 10.00 | |
| | mt | 20mm | 2 | 4.00 | | | 8.00 | |
| | mt | 12mm | 2 | 2.75 | | | 5.50 | |
| Bottom | mt | 20mm | 2 | 4.20 | | | 8.40 | |
| Pin Rod | mt | 20mm | 6 | 0.30 | | | 1.80 | |
| Ring 150c/c & 230c/c | mt | 8mm | 76 | 1.16 | | | 88.16 | |
| B16-A (200x450) Top & Bottom | mt | 16mm | 2x2 | 5.70 | | | 22.80 | |
| Ring - 150 c/c & 230 c/c | mt | 8mm | 28 | 1.16 | | | 32.48 | |
| B17 (300x450) Top | mt | 16mm | 2x2 | 16.80 | | | 100.80 | |
| Extra top | mt | 25mm | 3 | 2.50 | | | 7.50 | |
| | mt | 16mm | 3 | 3.60 | | | 10.80 | |
| Bottom | mt | 20mm | 3 | 5.30 | | | 15.90 | |
| Pin Rod | mt | 20mm | 8 | 0.30 | | | 2.40 | |
| Ring 100c/c & 150c/c | mt | 10mm | 42 | 1.36 | | | 57.12 | |
| | mt | 8mm | 58 | 1.36 | | | 78.88 | |
| B18 (300x450) Top & Bottom | mt | 16mm | 3x2x7 | 16.80 | | | 705.60 | |
| Extra top | mt | 16mm | 2x7 | 2.50 | | | 35.00 | |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | mt | 16mm | 3x7 | 3.80 | | | 79.80 | |
| | mt | 16mm | 2x7 | 3.00 | | | 42.00 | |
| Bottom | mt | 16mm | 2x7 | 5.30 | | | 74.20 | |
| Pin Rod | mt | 20mm | 12x7 | 0.30 | | | 25.20 | |
| Ring 150c/c & 230c/c | mt | 8mm | 89x7 | 1.36 | | | 847.28 | |
| B18A (300x450) Top & Bottom | mt | 16mm | 3x2x5 | 16.80 | | | 504.00 | |
| Extra top | mt | 20mm | 2x5 | 2.50 | | | 25.00 | |
| | mt | 16mm | 2x5 | 3.80 | | | 38.00 | |
| Bottom | mt | 16mm | 2x5 | 5.30 | | | 53.00 | |
| Pin Rod | mt | 20mm | 8x5 | 0.30 | | | 12.00 | |
| Ring 150c/c & 230c/c | mt | 8mm | 89x5 | 1.36 | | | 605.20 | |
| B19 (300 x 450) Top & Bottom | mt | 16mm | 3x2 | 16.80 | | | 100.80 | |
| Extra top | mt | 20mm | 2 | 2.50 | | | 5.00 | |
| | mt | 20mm | 2 | 3.80 | | | 7.60 | |
| Bottom | mt | 16mm | 2 | 5.30 | | | 10.60 | |
| Pin Rod | mt | 20mm | 8 | 0.30 | | | 2.40 | |
| Ring 100c/c & 150c/c | mt | 8mm | 118 | 1.36 | | | 160.48 | |
| B20 (300x450) Top & Bottom | mt | 16mm | 3x2 | 16.80 | | | 100.80 | |
| Extra top | mt | 16mm | 2 | 2.50 | | | 5.00 | |
| | mt | 20mm | 2 | 3.80 | | | 7.60 | |
| | mt | 16mm | 2 | 3.00 | | | 6.00 | |
| Bottom | mt | 16mm | 2 | 5.30 | | | 10.60 | |
| Pin Rod | mt | 20mm | 12 | 0.30 | | | 3.60 | |
| Ring 150c/c & 230c/c | mt | 8mm | 89 | 1.36 | | | 121.04 | |
| B21 (150x450) Top & Bottom | mt | 12mm | 2x2 | 4.10 | | | 16.40 | |
| Ring - 150 c/c | mt | 8mm | 21 | 1.11 | | | 23.31 | |
| B22 (200x450) Top & Bottom | mt | 16mm | 2x2 | 7.40 | | | 29.60 | |
| Extra | mt | 20mm | 2 | 1.90 | | | 3.80 | |
| Pin Rod | mt | 20mm | 3 | 0.30 | | | 0.90 | |
| Ring 150c/c | mt | 8mm | 45 | 1.16 | | | 52.20 | |
| B23 (200x450) Top & Bottom | mt | 12mm | 2x2 | 2.95 | | | 11.80 | |
| Ring 150c/c | mt | 8mm | 15 | 1.16 | | | 17.40 | |
| B24 (300x450) Top & Bottom | mt | 16mm | 3x2 | 16.80 | | | 100.80 | |
| Extra top | mt | 25mm | 3 | 2.50 | | | 7.50 | |
| | mt | 16mm | 3 | 3.80 | | | 11.40 | |
| Bottom | mt | 20mm | 3 | 5.30 | | | 15.90 | |
| Pin Rod | mt | 20mm | 8 | 0.30 | | | 2.40 | |
| Ring 150c/c & 230 c/ | mt | 8mm | 89 | 1.36 | | | 121.04 | |
| B25 (300x450) Top & Bottom | mt | 16mm | 3x2 | 8.70 | | | 52.20 | |
| Extra top | mt | 12mm | 2 | 1.80 | | | 3.60 | |
| | mt | 20mm | 2 | 2.80 | | | 5.60 | |
| Ring 150c/c & 230 c/ | mt | 8mm | 41 | 1.36 | | | 55.76 | |
| B26 (200x450) Top & Bottom | mt | 16mm | 2x2 | 16.80 | | | 67.20 | |
| Extra Top | mt | 20mm | 2 | 2.50 | | | 5.00 | |
| | mt | 20mm | 2 | 3.80 | | | 7.60 | |
| | mt | 16mm | 2 | 3.00 | | | 6.00 | |
| Extra bottom | mt | 20mm | 2 | 5.30 | | | 10.60 | |
| Pin Rod | mt | 20mm | 12 | 0.30 | | | 3.60 | |
| Ring 100 c/c, 150c/c & 230 | mt | 8mm | 76 | 1.16 | | | 88.16 | |
| | | | | | | | | |
| | | | | | | | | |
| Slab : | | | | | | | | |
| Grid 1 to 2 - A & G | | | | | | | | |
| Main 150 c/c | mt | 10mm | 81 | 4.40 | | | 356.40 | |
| | mt | 10mm | 32 | 5.90 | | | 188.80 | |
| Dist 150 c/c | mt | 8mm | 20 | 16.80 | | | 336.00 | |
| | mt | 8mm | 11 | 5.10 | | | 56.10 | |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Extra - A | mt | 10mm | 20 | 2.50 | | | 50.00 | |
| | mt | 8mm | 12 | 5.50 | | | 66.00 | |
| B | mt | 10mm | 20 | 3.50 | | | 70.00 | |
| | mt | 8mm | 12 | 5.50 | | | 66.00 | |
| C | mt | 20 mm | 20 | 3.50 | | | 70.00 | |
| | mt | 8mm | 12 | 5.50 | | | 66.00 | |
| F | mt | 10mm | 20 | 3.00 | | | 60.00 | |
| | mt | 8mm | 12 | 5.50 | | | 66.00 | |
| Chair | mt | 8mm | 16 | 1.00 | | | 16.00 | |
| Grid 2 to 12 - A & G Main | mt | 10mm | 81x8 | 4.40 | | | 2851.20 | |
| Dist | mt | 8mm | 20x8 | 16.80 | | | 2688.00 | |
| Extra - A | mt | 10mm | 20x8 | 3.00 | | | 480.00 | |
| | mt | 8mm | 12x8 | 5.50 | | | 528.00 | |
| B | mt | 10mm | 20x8 | 3.50 | | | 560.00 | |
| | mt | 8mm | 12x8 | 5.50 | | | 480.00 | |
| C | mt | 10mm | 20x8 | 3.50 | | | 528.00 | |
| | mt | 8mm | 12x8 | 5.50 | | | 560.00 | |
| F | mt | 10mm | 20x8 | 3.00 | | | 480.00 | |
| | mt | 8mm | 12x8 | 5.50 | | | 528.00 | |
| Chair | mt | 8mm | 16x8 | 1.00 | | | 128.00 | |
| Grid - 10 to 11 - C & G Main | mt | 10mm | 44 | 3.70 | | | 162.80 | |
| Dist | mt | 8mm | 18 | 6.50 | | | 117.00 | |
| Grid -10 & 14 - A to C Main | mt | 10mm | 59x2 | 4.40 | | | 519.20 | |
| Dist | mt | 8mm | 20x2 | 8.80 | | | 352.00 | |
| Extra - A | mt | 10mm | 20x2 | 3.00 | | | 120.00 | |
| | mt | 8mm | 12x2 | 5.50 | | | 132.00 | |
| B & C | mt | 10mm | 20x2x2 | 3.50 | | | 280.00 | |
| | mt | 8mm | 12x2x2 | 5.50 | | | 264.00 | |
| Chair | mt | 8mm | 12x2x2 | 1.00 | | | 48.00 | |
| Grid 14 to 21- A & G Main | mt | 10mm | 81x7 | 4.40 | | | 2494.80 | |
| Dist | mt | 8mm | 20x7 | 16.80 | | | 2352.00 | |
| Extra - A | mt | 10mm | 20x7 | 3.00 | | | 420.00 | |
| | mt | 8mm | 12x7 | 5.50 | | | 462.00 | |
| B | mt | 10mm | 20x7 | 3.50 | | | 490.00 | |
| | mt | 8mm | 12x7 | 5.50 | | | 462.00 | |
| C | mt | 10mm | 20x7 | 3.50 | | | 490.00 | |
| | mt | 8mm | 12x7 | 5.50 | | | 462.00 | |
| F | mt | 10mm | 20x7 | 3.50 | | | 490.00 | |
| | mt | 8mm | 12x7 | 5.50 | | | 462.00 | |
| Chair | mt | 8mm | 16x7 | 1.00 | | | 112.00 | |
| | | | | | | | | |
| | | | | | | | | |
| Main Staircase | | | | | | | | |
| Main Rod | mt | 12mm | 43 | 3.84 | | | 165.12 | |
| Distribution | mt | 10mm | 26 | 6.4 | | | 166.40 | |
| 7th Flait | mt | 12mm | 10 | 4.9 | | | 49.00 | |
| | mt | 12mm | 10 | 2.35 | | | 23.50 | |
| | mt | 12mm | 10 | 2.40 | | | 24.00 | |
| | mt | 12mm | 10 | 2.10 | | | 21.00 | |
| | mt | 10mm | 23 | 1.50 | | | 34.50 | |
| 8th Flait | mt | 12mm | 10x2 | 5.85 | | | 117.00 | |
| | mt | 10mm | 38x2 | 1.50 | | | 114.00 | |
| 9th Flait | mt | 12mm | 10 | 2.40 | | | 24.00 | |
| | mt | 12mm | 10 | 4.90 | | | 49.00 | |
| | mt | 10mm | 14 | 1.50 | | | 21.00 | |
| Z beam (300x450) | | | | | | | | |
| | mt | 16mm | 2x3 | 7.10 | | | 42.60 | |

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|---|---|---|---|---|---|---|---|---|
| Extra | mt | 16mm | 2x2 | 1.50 | | | 6.00 | |
| Ring 125 c/c & 150 c/c | mt | 8mm | 48 | 1.36 | | | 65.28 | |
| | | | | | | | | |
| | | | | | | | | |
| | mt | 8mm | 17672 | 0.39 | | | 6892.20 | |
| | mt | 10mm | 11428 | 0.62 | | | 7085.42 | |
| | mt | 12mm | 2874.9 | 0.89 | | | 2558.63 | |
| | mt | 16mm | 4118.1 | 1.58 | | | 6506.57 | |
| | mt | 20mm | 748.9 | 2.47 | | | 1849.78 | |
| | mt | 25mm | 42 | 3.85 | | | 161.70 | |
| | | | | | Sub Total - A | | 25054.30 | |
| rd Floor Lintels | | | | | | | | |
| | | | | | | | | |
| dow- Main bars | mt | 12mm | 4X33 | 2.60 | | | 304.76 | |
| dow - Ring | mt | 8mm | 20X33 | 0.90 | | | 234.63 | |
| r - Main bars | mt | 12mm | 1X4 | 1.80 | | | 6.39 | |
| r - Ring | mt | 8mm | 1X14 | 0.90 | | | 4.98 | |
| ilators - Main bars | mt | 12mm | 4X10 | 0.90 | | | 31.97 | |
| ilators - Ring | mt | 8mm | 8X10 | 0.90 | | | 28.44 | |
| h room Doors | | | | | | | | |
| n bars | mt | 12mm | 4X12 | 1.2 | | | 57.60 | |
| gs | mt | 8mm | 10X12 | 0.9 | | | 108.00 | |
| | | | | | Sub Total - B | | 776.77 | |
| | | | | | Weight in kgs | | 25831.07 | |
| | | | | | Weight in Tonne | | 25.83 | |
| | | | | | **Total Qty Work Done** | | **25.83** | **Ton** |
| | | | | | **Qty Payable in this bill** | | ~~25.83~~ | **Ton** |

25.80

25.80

CIVIL QUALITY CONSULTANTS (I) Bangalore

Contractor Representative

Consultant Representative

**Assistant Engineer**
**RR Nagara Division (Project )**

**Asst.Executive Engineer**
**RR Nagara Division (Project )**

Scanned with CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

Second and Part Bill

| Description | Unit | Dia | No. | Length | Breadth | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| **Reinforcement Work** | | | | | | | | |
| Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications. Specification No.KBS 4.6.3. FOR TMT Bars Fe- 500 - Terrece Floor | | | | | | | | |
| **Terrace Floor Columns** | | | | | | | | |
| C2 | mt | 12mm | 4x8 | 3.20 | | | 90.93 | |
| C5 | mt | 16mm | 3x4 | 3.60 | | | 68.26 | |
| | mt | 12mm | 3x8 | 3.60 | | | 76.72 | |
| C7 | mt | 16mm | 1x4 | 3.60 | | | 22.75 | |
| | mt | 12mm | 1x8 | 3.60 | | | 25.57 | |
| Ring 200c/c | | | | | | | | |
| C1 | mt | 8mm | 5x2x17 | 1.08 | | | 72.52 | |
| C5 | mt | 8mm | 3x17 | 1.60 | | | 32.23 | |
| | mt | 8mm | 3x17 | 0.75 | | | 15.11 | |
| | mt | 8mm | 3x17 | 0.35 | | | 7.05 | |
| C7 | mt | 8mm | 1x17 | 1.60 | | | 10.74 | |
| | mt | 8mm | 1x17 | 0.75 | | | 5.04 | |
| | mt | 8mm | 1x17 | 0.35 | | | 2.35 | |
| Beams-B2 | | | | | | | | |
| B1 (200X450) T & B | Mt | 16mm | 2X2 | 8.30 | | | 52.46 | |
| Top extra bar | Mt | 12mm | 2X2 | 3.40 | | | 12.08 | |
| Ring - 150 & 230 C/C | Mt | 8mm | 38 | 1.16 | | | 17.41 | |
| Beams-B2 | | | | | | | | |
| B2 (200X450) T & B | Mt | 16mm | 2X2 | 8.30 | | | 52.46 | |
| Ring - 150 C/C | Mt | 8mm | 45 | 1.16 | | | 20.62 | |
| Beams-B3 | | | | | | | | |
| B3 (200X450) T & B | Mt | 16mm | 2X2 | 8.30 | | | 52.46 | |
| Ring - 150 & 230 C/C | Mt | 8mm | 38 | 1.16 | | | 17.41 | |
| Beams-B4 | | | | | | | | |
| B4 (200X450) T & B | Mt | 16mm | 3X2 | 8.40 | | | 79.63 | |
| Top extra bar | Mt | 12mm | 2X2 | 2.80 | | | 9.95 | |
| Ring - 150 & 230 C/C | Mt | 8mm | 40 | 1.16 | | | 18.33 | |
| Beams-B5 | | | | | | | | |
| B5 (200X450) T & B | Mt | 16mm | 2X2 | 8.40 | | | 53.09 | |
| Top extra bar | Mt | 12mm | 2X2 | 2.92 | | | 10.37 | |
| Ring - 150 C/C | Mt | 8mm | 40 | 1.16 | | | 18.33 | |
| Beams-B5 | | | | | | | | |
| B5 (200X450) T & B | Mt | 16mm | 2X2 | 3.30 | | | 20.86 | |
| Ring - 150 C/C | Mt | 8mm | 19 | 1.16 | | | 8.71 | |
| Beams-B4 | | | | | | | | |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| B4 (200X450) T & B | Mt | 16mm | 3X2 | 8.40 | | | 79.63 | |
| Top extra bar | Mt | 12mm | 2X2 | 2.80 | | | 14.92 | 9.96 |
| Ring - 150 & 230 C/C | Mt | 8mm | 40 | 1.16 | | | 18.33 | |
| | | | | | | | | |
| Slab Reinforcement | | | | | | | | |
| Main bar - A reinforcement | Mt | 10mm | 45 | 6.60 | | | 183.25 | |
| Top bar | Mt | 10mm | 45 | 1.43 | | | 39.70 | |
| Top bar | Mt | 10mm | 45 | 1.13 | | | 31.37 | |
| Main bar - B reinforcement | Mt | 8mm | 33 | 6.70 | | | 87.33 | |
| | Mt | 8mm | 33 | 1.78 | | | 23.20 | |
| | Mt | 8mm | 33 | 1.83 | | | 23.85 | |
| Main bar - C reinforcement | Mt | 8mm | 90 | 1.72 | | | 61.15 | |
| | Mt | 8mm | 24 | 9.75 | | | 92.43 | |
| **Third Floor Lintels** | | | | | | | | |
| | | | | | | | | |
| Window- Main bars | mt | 12mm | 4X33 | 2.60 | | | 304.76 | |
| Window - Ring | mt | 8mm | 20X33 | 0.90 | | | 234.63 | |
| Door - Main bars | mt | 12mm | 1X4 | 1.80 | | | 6.39 | |
| Door - Ring | mt | 8mm | 1X4 | 0.90 | | | 1.42 | |
| Ventilators - Main bars | mt | 12mm | 4X10 | 0.90 | | | 31.97 | |
| Ventilators - Ring | mt | 8mm | 8X10 | 0.90 | | | 28.44 | |
| Bath room Doors | | | | | | | | |
| Main bars | mt | 12mm | 4X12 | 1.2 | | | 51.15 | |
| Rings | mt | 8mm | 10X12 | 0.9 | | | 42.66 | |
| | | | | | Weight in kgs | | 2230.02 | 2225.5 |
| | | | | | Weight in Tonne | | 2.23 | 2.22 |
| | | | | | **Total Qty Work Done** | | **2.23** | **Ton** |
| | | | | | **Qty Payable in this bill** | | **2.20** | **Ton** |

Contractor Representative

Consultant Representative

CIVIL QUALITY CONSULTANTS Bangalore ENGINEERS

**Assistant Engineer**
**RR Nagara Division (Project )**

**Asst.Executive Engineer**
**RR Nagara Division (Project )**

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BRUHAT BANGALORE MAHANAGARA PALIKE

e of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

Second and Part Bill

| | |
|---|---|
| 55 | Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 - do - with solid concrete blocks of size 400x200x200mm Ground Floor |

| CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|
| Duct wall | 1.00 | 4.600 | | | | 2.55 | 11.73 | |
| Lift wall | 1.00 | 2.200 | | | | 2.55 | 5.61 | |
| | | | | | | Total Qty Work Done | 17.34 | Sqm |
| | | | | | | Last bill Qty | 421.20 | Sqm |
| | | | | | | Last Reserved Qty | 88.87 | |
| | | | | | | Schedule B Qty | 421.20 | |
| | | | | | | Total Reserved Qty | 106.21 | |
| | | | | | | Qty Limited Payable in this bill | 0.00 | Sqm |

CIL QUALITY CONSULTANTS Bangalore ENGINEERS

Contractor Representative

Consultant Representative

Assistant Engineer
Nagara Division (Project )

Asst.Executive Engineer
RR Nagara Division (Project )

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**Second and Part Bill**

56

Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 - do - with solid concrete blocks of size 400x200x200mm First Floor

| CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|
| First Floor | | | | | | | | |
| Lift wall | 2 | 1.300 | | | | 3.150 | 8.19 | |
| | 1 | 2.150 | | | | 3.150 | 6.77 | |
| Staircase Wall | 1 | 5.300 | | | | 3.150 | 16.70 | |
| | 1 | 3.550 | | | | 3.150 | 11.18 | |
| | 1 | 3.800 | | | | 3.150 | 11.97 | |
| Deductions(-) | | | | | | | | |
| Window | -1 | 1.500 | | | | 1.200 | -1.80 | |
| Midlanding Beam | -1 | 5.300 | | | | 0.450 | -2.39 | |
| Western side | | | | | | | | |
| Shops - End wall | 18 | 2.900 | | | | 3.150 | 164.43 | |
| Shops - Middle wall | 12 | 2.300 | | | | 3.150 | 86.94 | |
| Shops - Middle wall | 7 | 2.600 | | | | 3.150 | 57.33 | |
| Balcony wall | 2 | 4.700 | | | | 3.150 | 29.61 | |
| Eastern side | | | | | | | 0.00 | |
| Shops - End wall | 10 | 5.300 | | | | 3.150 | 166.95 | |
| Shops - End wall | 7 | 5.600 | | | | 3.150 | 123.48 | |
| Shops - Middle wall | 17 | 3.000 | | | | 3.150 | 160.65 | |
| Staircasewall | 1 | 4.600 | | | | 3.150 | 14.49 | |
| Lift wall | 1.00 | 2.200 | | | | 2.55 | 5.61 | |
| Deductions | | | | | | | | |
| Ventilators | 18 | 1.500 | | | | 0.600 | -16.20 | |
| Windows | 1 | 1.800 | | | | 1.200 | -2.16 | |
| Door | 1 | 1.200 | | | | 2.100 | -2.52 | |
| Lintels - V | 18 | 2.100 | | | | 0.200 | -7.56 | |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Lintels - W | 1 | 2.600 | | | | 0.200 | -0.52 | |
| Lintels - D | 1 | 1.800 | | | | 0.200 | -0.36 | |
| Lift Door | 1 | 0.900 | | | | 2.100 | -1.89 | |
| | | | | | | **Total Qty Work Done** | 828.91 | Sqm |
| | | | | | | **Last Bill Qty** | 50.63 | Sqm |
| | | | | | | **Reserved Qty** | 174.04 | Sqm |
| | | | | | | **Qty Limited Payable in this bill** | 654.87 | Sqm |

Contractor Representative

Consultant Representative

**Assistant Engineer**
**RR Nagara Division (Project )**

**Asst.Executive Engineer**
**RR Nagara Division (Project )**

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**e of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**Second and Part Bill**

57

Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 - do - with solid concrete blocks of size 400x200x200mm Second Floor

| CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|
| Secound Floor | | | | | | | | |
| Lift wall | 2 | 1.300 | | | | 3.150 | 8.19 | |
| | 1 | 2.150 | | | | 3.150 | 6.77 | |
| Staircase Wall | 1 | 5.300 | | | | 3.150 | 16.70 | |
| | 1 | 3.550 | | | | 3.150 | 11.18 | |
| | 1 | 3.800 | | | | 3.150 | 11.97 | |
| Deductions(-) | | | | | | | | |
| Window | -1 | 1.500 | | | | 1.200 | -1.80 | |
| Midlanding Beam | -1 | 5.300 | | | | 0.450 | -2.39 | |
| Outside walls | 18.00 | 2.900 | | | | 3.150 | 164.43 | |
| | 2.00 | 5.600 | | | | 3.150 | 35.28 | |
| | 2.00 | 2.300 | | | | 3.150 | 14.49 | |
| | 2 | 4.700 | | | | 3.150 | 29.61 | |
| | 2 | 5.300 | | | | 3.150 | 33.39 | |
| | 16 | 2.900 | | | | 3.150 | 146.16 | |
| Toilet walls | 6 | 3.000 | | | | 3.150 | 56.70 | |
| | 2 | 2.300 | | | | 3.150 | 14.49 | |
| | 1 | 2.900 | | | | 3.150 | 9.14 | |
| Duct walls | 1 | 4.600 | | | | 3.150 | 14.49 | |
| Entrance walls | 1 | 5.300 | | | | 3.150 | 16.70 | |
| Lift wall | 1.00 | 2.200 | | | | 2.55 | 5.61 | |
| Lift wall | 2 | 1.300 | | | | 3.150 | 8.19 | |
| | 1 | 2.150 | | | | 3.150 | 6.77 | |
| Staircase Wall | 1 | 5.300 | | | | 3.150 | 16.70 | |
| | 1 | 3.550 | | | | 3.150 | 11.18 | |
| | 1 | 3.800 | | | | 3.150 | 11.97 | |
| | 1 | 7.400 | | | | 3.150 | 23.31 | |
| Deductions | | | | | | | | |
| Windows | 33 | 2.000 | | | | 1.500 | -99.00 | |
| Ventilators | 10 | 0.600 | | | | 0.600 | -3.60 | |
| Doors | 1 | 1.200 | | | | 2.100 | -2.52 | |
| Doors | 4 | 0.900 | | | | 2.100 | -7.56 | |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Lift Door | 1 | 0.900 | | | | 2.100 | -1.89 | |
| Window | -1 | 1.500 | | | | 1.200 | -1.80 | |
| Midlanding Beam | -1 | 5.300 | | | | 0.450 | -2.39 | |
| | | | | | | **Total Qty Work Done** | **558.84** | **Sqm** |
| | | | | | | **Last Bill Qty** | **50.63** | **Sqm** |
| | | | | | | **Reserved Qty** | **119.17** | **Sqm** |
| | | | | | | **Qty Limited Payable in this bill** | **439.67** | **Sqm** |

Contractor Representative

Consultant Representative

**Assistant Engineer**

**RR Nagara Division (Project )**

**Asst.Executive Engineer**

**RR Nagara Division (Project )**

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**e of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**Second and Part Bill**

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Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 - do - with solid concrete blocks of size 400x200x200mm Third Floor

| CHAINAGE Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|
| Outside walls | 18.00 | 2.900 | | | | 3.150 | 164.43 | |
| | 2.00 | 5.600 | | | | 3.150 | 35.28 | |
| | 2.00 | 2.300 | | | | 3.150 | 14.49 | |
| | 2 | 4.700 | | | | 3.150 | 29.61 | |
| | 2 | 5.300 | | | | 3.150 | 33.39 | |
| | 16 | 2.900 | | | | 3.150 | 146.16 | |
| Toilet walls | 6 | 3.000 | | | | 3.150 | 56.70 | |
| | 2 | 2.300 | | | | 3.150 | 14.49 | |
| | 1 | 2.900 | | | | 3.150 | 9.14 | |
| Duct walls | 1 | 4.600 | | | | 3.150 | 14.49 | |
| Entrance walls | 1 | 5.300 | | | | 3.150 | 16.70 | |
| Lift wall | 1.00 | 2.200 | | | | 2.55 | 5.61 | |
| Lift wall | 2 | 1.300 | | | | 3.150 | 8.19 | |
| | 1 | 2.150 | | | | 3.150 | 6.77 | |
| Staircase Wall | 1 | 5.300 | | | | 3.150 | 16.70 | |
| | 1 | 3.550 | | | | 3.150 | 11.18 | |
| | 1 | 3.800 | | | | 3.150 | 11.97 | |
| | 1 | 7.400 | | | | 3.150 | 23.31 | |
| Deductions | | | | | | | | |
| Windows | 33 | 2.000 | | | | 1.500 | -99.00 | |
| Ventilators | 10 | 0.600 | | | | 0.600 | -3.60 | |
| Doors | 1 | 1.200 | | | | 2.100 | -2.52 | |
| Doors | 4 | 0.900 | | | | 2.100 | -7.56 | |
| Lift Door | 1 | 0.900 | | | | 2.100 | -1.89 | |
| Window | -1 | 1.500 | | | | 1.200 | (-)1.80 | |

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Midlanding Beam | -1 | 5.300 | | | | 0.450 | 2.39 | |
| | | | | | | **Total Qty Work Done** | 508.22 | Sqm |
| | | | | | | **Reserved Qty** | 17.92 | Sqm |
| | | | | | | **Qty Limited Payable in this bill** | 490.30 | Sqm |

Contractor Representative

Consultant Representative

**Assistant Engineer**

**RR Nagara Division (Project )**

**Asst.Executive Engineer**

**RR Nagara Division (Project )**

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BRUHAT BANGALORE MAHANAGARA PALIKE

e of Work:-Construction of Market Building At Jp Park in Ward No 17.

Measurement Sheet

Second and Part Bill

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| n | 59 |

Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 - do - with solid concrete blocks of size 400x200x200mm Terrece Floor

| CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|
| **Parapet wall** | **1.00** | **124.60** | | | | **1.00** | 124.60 | |
| **Head Room wall** | **1.00** | **23.40** | | | | **2.75** | 64.35 | |
| **Lift wall** | **1.00** | **1.00** | | | | **2.75** | 2.75 | |
| | **2.00** | **2.40** | | | | **2.75** | 13.20 | |
| **Lift Machine Room wall** | **2.00** | **2.37** | | | | **2.75** | 13.01 | |
| **Head Room exit wall** | **1.00** | **6.10** | | | | **2.75** | 16.78 | |
| Deductions | | | | | | | | |
| Lift Door | 1 | 0.900 | | | | 2.100 | -1.89 | |
| Door - D1 | 2 | 0.900 | | | | 2.100 | -3.78 | |
| Window | 1 | 1.500 | | | | 1.500 | -2.25 | |
| Midlanding Beam | 1 | 5.300 | | | | 0.450 | -2.39 | |
| | | | | | | **Total Qty Work Done** | **224.38** | **Sqm** |
| | | | | | | **Reserved Qty** | **32.48** | **Sqm** |
| | | | | | | **Qty Limited Payable in this bill** | **191.90** | **Sqm** |

Contractor Representative

Consultant Representative

Assistant Engineer

RR Nagara

Asst.Executive Engineer

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**BRUHAT BANGALORE MAHANAGARA PALIKE**

**of Work:-Construction of Market Building At Jp Park in Ward No 17.**

**Measurement Sheet**

**Second and Part Bill**

**60**

Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200mm having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 Second Floor

| CHAINAGE / Land Mark | NO | L (m) | B (m) | B1 (m) | Avg B (m) | D (m) | QTY | REMARKS |
|---|---|---|---|---|---|---|---|---|
| Toilet walls | 8 | 1.450 | | | | 3.150 | 36.54 | |
| | 2 | 4.300 | | | | 3.150 | 27.09 | |
| | 6 | 1.450 | | | | 3.150 | 27.41 | |
| Deductions | | | | | | | | |
| | 4 | 0.900 | | | | 2.100 | -7.56 | |
| | 14 | 0.750 | | | | 2.100 | -22.05 | |
| | | | | | | **Total Qty Work Done** | **61.43** | **Sqm** |
| | | | | | | **Qty Limited Payable in this bill** | **60.52** | **Sqm** |

60.5

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Contractor Representative

Consultant Representative

**Assistant Engineer**

**RR Nagara Division (Project )**

**Asst.Executive Engineer**

**RR Nagara Division (Project )**

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